

GPU SuperServer SYS-220GQ-TNAR+

2U Dual Processor (Intel) GPU System with NVIDIA HGX A100 4-GPU 40GB/80GB, NVLink, Redundant 3000W Titanium Level Power Supplies



More details here

Key Applications

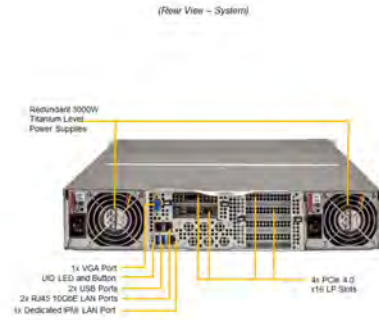
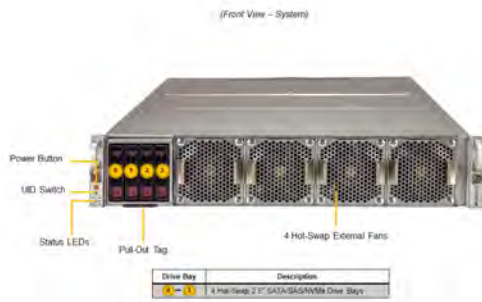
High Performance Computing, AI/Deep Learning Training,

Key Features

- Dual Socket P+ (LGA-4189) 3rd Gen Intel® Xeon® Scalable Processors;
- Intel® C621A Chipset;
- 32 DIMM Slots; Up to 8TB DRAM; Up to 8TB Intel® Optane™ Persistent Memory; 3200/2933/2666 ECC DDR4 LRDIMM; RDIMM; Intel® Optane™ Persistent Memory 200 series; Up to 4x PCIe Gen 4.0 X16 LP Slots;
- Direct connect PCIe Gen4 Platform with NVIDIA® NVLink™ v3.0 up to 600GB/s interconnect; Highest GPU communication using NVIDIA® NVLINK™; Supports HGX A100 4-GPU 40GB (HBM2) or 80GB (HBM2e); High density 2U system with NVIDIA® HGX™ A100 4-GPU;
- Flexible networking options;
- 2 M.2 NVMe/SATA via Intel® C621A PCH chipset (for boot drive only); 4x 2.5" Hot-swap (SATA/SAS/NVMe) drive bays;
- 4 heavy duty fans with optimal fan speed control;
- 2x 3000W redundant Titanium level power supplies;



Form Factor	2U Rackmount Enclosure: 437 x 89 x 830.3mm (17.2" x 3.5" x 32.7") Package: (22.5" x 11" x 45.5")
Processor	3rd Gen Intel® Xeon® Scalable processors Dual Socket LGA-4189 (Socket P+) supported TDP up to 270W; 3 UPI
GPU	Supported GPU: HGX A100 4-GPU SXM4 Multi-GPU Board CPU-GPU Interconnect: PCIe 4.0 x16 CPU-to-GPU Interconnect GPU-GPU Interconnect: NVIDIA® NVLink™
System Memory	32 DIMM slots Up to 8TB ECC LRDIMM, DDR4-3200MHz
Drive Bays	4x 2.5" hot-swap NVMe/SATA/SAS drive bays 2 M.2 NVMe OR 2 M.2 SATA3
Expansion Slots	3 PCIe 4.0 x16 LP slot(s) 1 PCIe 4.0 x16 LP (enabled upon request during order) ** slot(s)
On-Board Devices	SATA: SATA3 (6Gbps); RAID 0/1/5/10 support Chipset: Intel® C621A Network Connectivity: 2x 10GbE BaseT with Intel® X540-AT2 IPMI: Support for Intelligent Platform Management Interface v.2.0 IPMI 2.0 with virtual media over LAN and KVM-over-LAN support
Input / Output	Video: 1 VGA port(s)



System Cooling	4 heavy duty fan(s)
Power Supply	2U 3000W 54V+12V Output Redundant Power Supply Specification Dimension (W x H x L): 106.5 x 82.4 x 203.5 mm Output Type: Backplanes (gold finger)
System BIOS	BIOS Type: AMI 32MB SPI Flash EEPROM
Management	SuperDoctor® 5; Watch Dog; NMI; SUM; KVM with dedicated LAN; SPM; Intel® Node Manager; SSM; IPMI 2.0; Redfish API; OOB Management Package (SFT-OOB-LIC)
PC Health Monitoring	CPU: Monitors for CPU Cores, Chipset Voltages, Memory 7 +1 Phase-switching voltage regulator FAN: Fans with tachometer monitoring Status monitor for speed control Pulse Width Modulated (PWM) fan connectors Temperature: Monitoring for CPU and chassis environment Thermal Control for fan connectors
Dimensions and Weight	Height: 3.5" (89 mm) Width: 17.2" (437 mm) Depth: 32.7" (830.3 mm) Gross Weight: 86.5 lbs (39.2 kg) Net Weight: 67.5 lbs (30.6 kg) Packaging: 11" x 22.5" x 45.5" Available Color: Silver Body
Operating Environment	Operating Temperature: 10°C ~ 35°C (50°F ~ 95°F) Non-operating Temperature: -40°C to 60°C (-40°F to 140°F) Operating Relative Humidity: 8% to 90% (non-condensing) Non-operating Relative Humidity: 5% to 95% (non-condensing)
Motherboard	Super X12DPG-QR
Chassis	CSE-228GTS-R3K02P